

Title (en)

Tuned intake manifold for internal-combustion engines.

Title (de)

Resonanzansaugsystem für Brennkraftmaschinen.

Title (fr)

Collecteur d'admission à résonance pour moteurs à combustion interne.

Publication

EP 0255059 A1 19880203 (DE)

Application

EP 87110730 A 19870724

Priority

DE 3625756 A 19860730

Abstract (en)

1. A resonance suction system in an internal combustion engine having at least one resonance chamber (1) through which a stream flows, at least one feed pipe (2) thereto, the length (21) of which is able to be altered continuously in order to be able to affect the inherent frequency of the resonance system to utilize oscillations for a charging of the internal combustion engine, and having suction pipes (3) leading from the resonance chamber (1) to the cylinders of the internal combustion engine, characterised by an adjustment element (5) provided inside the feed pipe (2) which alters in cross-section continuously in the direction of flow, and which adjustment element is carried so as to be substantially movable in the direction of flow and likewise alters in cross-section continuously in the direction of flow.

Abstract (de)

Ein Resonanzansaugsystem einer mehrzylindrigen Brennkraftmaschine besteht aus einer Resonanzkammer (1) mit einer sich keilförmig aufweitenden Zuleitung (2). Innerhalb dieser ist ein keilförmiges Stellelement (5) beweglich geführt. Durch unterschiedliche Positionierung des Stellelementes ergeben sich für die Zuleitung unterschiedliche wirksame Rohrlängen bzw. Rohrquerschnitte, sodaß dadurch die Resonanzfrequenz des Ansaugsystems kontinuierlich veränderbar ist.

IPC 1-7

F02B 27/02

IPC 8 full level

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CPC (source: EP)

F02B 27/021 (2013.01); **F02B 27/0252** (2013.01); **F02B 27/0268** (2013.01); **F02B 2075/1824** (2013.01); **Y02T 10/12** (2013.01)

Citation (search report)

- [Y] EP 0111336 A2 19840620 - NIPPON DENSO CO [JP]
- [Y] EP 0065076 A2 19821124 - KLOECKNER HUMBOLDT DEUTZ AG [DE]
- [A] DE 1941875 A1 19710304 - NISSAN MOTOR
- [A] FR 2514822 A1 19830422 - AUTOIPARI KUTATO INTEZET [HU]
- RESEARCH DISCLOSURE, Nr. 267, Juli 1986, Seiten 428-430, Zusammenfassung Nr. 26761, Emsworth, Hampshire, GB; "Engine intake tuning"
- PATENT ABSTRACTS OF JAPAN, Band 10, Nr. 360 (M-541)[2417], 3. Dezember 1986; & JP-A-61 155 618 (NISSAN MOTOR CO. LTD) 15-07-1986

Cited by

DE102006046534B4; EP0947678A3; DE10014282A1; EP1136674A3; EP1217187A1; FR2818319A1; EP0671553A1; FR2716935A1; US5479885A; US6192850B1; US6431136B2; WO2018206646A1

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